

NATIONAL WEATHER SERVICE INSTRUCTION 10-501

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Operations and Services

Public Weather Services, NWSPD 10-5

WFO STATEMENTS, SUMMARIES, TABLES PRODUCTS SPECIFICATION

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SUMMARY OF REVISIONS: This directive supersedes National Weather Service Instruction 10-501, "WFO Statements, Summaries, Tables Products Specification," dated October 1, 2002, and Weather Service Operations Manual (WSOM) Letter 12-00, "Daily Summary Message and Monthly Summary Message with ASOS," dated December 21, 2000, filed with WSOM Chapter C-21.

1. The State Weather Summary (AWIPS ID: SWS) and Regional Weather Summary (AWIPS ID: RWS) are consolidated in the Weather Summary (AWIPS ID: RWS).
2. The State Weather Roundup (AWIPS ID: SWR) and Regional Weather Roundup (AWIPS ID: RWR) are consolidated in the Weather Roundup (AWIPS ID: RWR).
3. The State Maximum/Minimum Temperature and Precipitation Table (AWIPS ID: STP) and Regional Maximum/Minimum Temperature and Precipitation Table (AWIPS ID: RTP) are consolidated in the Maximum/Minimum Temperature and Precipitation Table (AWIPS ID: RTP).
4. Requires WFOs to post the Preliminary Local Climatological Data, Form (F-6) on their local World Wide Web page.

signed

11/21/03

Gregory A. Mandt
Director, Office of Climate,
Water, and Weather Services

Date

WFO STATEMENTS, SUMMARIES, TABLES PRODUCTS SPECIFICATION

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1. **Introduction.** This procedural instruction describes narrative and tabular weather products issued by local Weather Forecast Offices (WFOs).
2. **Public Information Statement (Product Category PNS).**
 - 2.1 **Mission Connection.** The public information statement is an alphanumeric message used to distribute information on nonhazardous events; public education; National Weather Service (NWS) service changes, limitations or interruptions; and special guidelines for interpreting NWS data. The PNS is used by a wide variety of customers and partners such as the general public, emergency managers, and the media.
 - 2.2 **Issuance Guidelines.**
 - 2.2.1 **Creation Software.** Weather Forecast Offices (WFO) may use the AWIPS Watch, Warning and Advisory (WWA) program, the AWIPS text editor, or any other text editor to produce this product.
 - 2.2.2 **Issuance Criteria.** The need for issuance of the PNS is determined by the issuing office.
 - 2.2.3 **Issuance Time.** The PNS is a non-scheduled product issued when appropriate.
 - 2.2.4 **Valid Time.** The PNS is valid through the effective date or time period.
 - 2.2.5 **Product Expiration Time.** The PNS product expiration time may be up to 12 hours, depending upon product content.
 - 2.2.6 **Event Expiration Time.** The PNS does not have an event expiration time.
 - 2.3 **Technical Description.**
 - 2.3.1 **UGC Type.** The PNS will use UGC Zone (Z) coding.
 - 2.3.2 **Mass News Disseminator Broadcast Instruction Line.** There is no MND Broadcast Instruction Line for this product.
 - 2.3.3 **MND Product Type Line.** The PNS does not have a mandatory MND product type line; "PUBLIC INFORMATION STATEMENT" or any other appropriate header may be used.
 - 2.3.4 **Content.** The PNS may contain various weather or National Weather Service related information of public interest, as described in paragraph 2.1.

2.3.5 Format. The PNS is a free-form text product.

Product Format

NOaaii cccc ddhhmm

PNSxxx

stZ001-005>015-ddhhmm-

Description of Entry

(WMO Heading)

(AWIPS ID)

(UGC:Z & Product
expiration time)

PUBLIC INFORMATION STATEMENT

(MND)

-or-

APPROPRIATE HEADER INFORMATION

NATIONAL WEATHER SERVICE city st

time am/pm time_zone day mon dd yyyy

(Issuing Office)

(Issuance time and
date)

[TEXT]

\$\$

Name/Initials/Fcstr ID

(Optional)

Note: The “xxx” in this product is the modernized three-letter WFO identifier.

2.4 Updates, Amendments, and Corrections. Modifications are made to the PNS as needed. The appropriate terms “UPDATED,” or “CORRECTED,” preceded by three dots (...) will be appended to the product identification line in the mass disseminator header. As an important aid to users, a brief (usually one line) reason for the update or correction should be added.

3. **Weather Summary (Product Category RWS).**

3.1 Mission Connection. The Weather Summary (RWS) provides a brief narrative for a sub-state region, an entire state, or a multi-state region of recent past weather (up to 24 hours in the past), present weather, and forecast conditions (up to 24 hours in the future, but may extend up to 72 hours). The emphasis should be on past and current weather. WFOs, in coordination with their local customers and Regional Headquarters, will determine the regional extent of this product and which WFOs will issue sub-state, state, or multi-state product(s).

3.2 Issuance Guidelines.

3.2.1 Creation Software. The RWS may be composed using the AWIPS text editor or any other text editor.

3.2.2 Issuance Criteria. The RWS is a routine product.

3.2.3 Issuance Time. The RWS should be issued at least twice daily based upon customer requirements, generally mid-morning and early to mid-evening.

3.2.4 Valid Time. The RWS is generally valid up to 24 hours from the product issuance time.

3.2.5 Product Expiration Time. The RWS product expiration time may be up to 12 hours after issuance time.

3.2.6 Event Expiration Time. The RWS does not have an event expiration time.

3.3 Technical Description.

3.3.1 UGC Type. The RWS will use UGC Zone (Z) coding. The RWS may have several summaries grouped geographically. If grouped summaries are used, each summary should include a UGC header assigned for the public forecast zones within that grouping. The partitioning should be determined by the WFO, with the concurrence of the Regional Headquarters.

3.3.2 MND Broadcast Instruction Line. The RWS does not contain an MND Broadcast Instruction Line.

3.3.3 MND Product Type Line. The RWS MND is “WEATHER SUMMARY FOR “SUB-STATE REGION”, “STATE”, OR “MULTI-STATE REGION” where “SUB-STATE REGION”, “STATE”, OR “MULTI-STATE REGION” are replaced appropriately.

3.3.4 Content. The RWS may contain the entire range of meteorological variables, e.g., sky condition, weather, wind, temperature, snow depth, tides, water temperature, etc. Record and/or near-record temperatures, precipitation, heat, etc., should be mentioned. The synoptic features causing the weather may be mentioned but only in the very simplest, nontechnical terms.

3.3.5 Format. The RWS is a free-form text product.

Product Format

AWaaii cccc ddhhmm

RWSxxx

stZ001-005>015-ddhhmm-

WEATHER SUMMARY FOR “SUB-STATE REGION”,
“STATE”, OR “MULTI-STATE REGION”

Description of Entry

(WMO Heading)

(AWIPS ID)

(UGC:Z & Product
expiration time)

(MND)

NATIONAL WEATHER SERVICE city st
time am/pm time_zone day mon dd yyyy

(Issuing Office)
(Issuing time and
date)

[TEXT]

\$\$

(UGC Delimiter)

Name/Initials/Fcstr ID

(Optional)

Note: The “xxx” in this product is the modernized three-letter WFO identifier or the two-letter state abbreviation followed by a “space”.

3.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

4. **Weather Roundup (Product Category RWR).**

4.1 Mission Connection. The Weather Roundup (RWR) provides routine, standardized hourly observations for a sub-state region, an entire state, or a multi-state region. Standardized observations are those that meet the criteria defined in National Weather Service Instruction (NWSI) 10-1302, Instrument Requirements and Standards for the NWS Surface Observing Programs (Land). WFOs, in coordination with their local customers and Regional Headquarters, will determine the regional extent of this product and which WFOs will issue sub-state, multi-state, or state products.

4.2 Issuance Guidelines.

4.2.1 Creation Software. The RWR can be automatically composed and transmitted by use of a standard applications program that decodes the surface aviation observations (RiverPro), or created by the AWIPS (or any other) text editor.

4.2.2 Issuance Criteria. The RWR is a routine product.

4.2.3 Issuance Time. The RWR should be issued at least hourly. Since some observations are available a few minutes before the hour, while others are not available until shortly after the hour, WFOs may run the application just before the hour for fast dissemination of early observations and again shortly after the hour when the rest of the observations are available.

4.2.4 Valid Time. The RWR is generally valid for 1 hour from the product issuance time.

4.2.5 Product Expiration Time. The RWR product expiration time is generally 1 hour after issuance time.

4.2.6 Event Expiration Time. The RWR does not have an event expiration time.

4.3 Technical Description.

4.3.1 UGC Type. Public Forecast Zones. Each RWR may have several groups of observations. Each group of observations should include a UGC header assigned for the public forecast zones within that grouping. The partitioning should be determined by the WFO, with the concurrence of the Regional Headquarters.

4.3.2 MND Broadcast Instruction Line. The RWR does not contain an MND Broadcast Instruction Line.

4.3.3 MND Product Type Line. The RWR MND is “WEATHER ROUNDUP FOR “SUB-STATE REGION”, “STATE”, OR “MULTI-STATE REGION” where “SUB-STATE REGION”, “STATE”, OR “MULTI-STATE REGION” are replaced appropriately.

4.3.4 Content. The RWR may contain the entire range of meteorological variables, e.g., sky condition, weather, temperature, dew point, relative humidity, wind, atmospheric pressure, etc. In remarks, Wind Chill Index will be abbreviated “WCI” and Heat Index will be abbreviated “HX”. Below zero values for temperature, dew point, and WCI will be preceded by a minus (-) sign. If the satellite cloud cover product is unavailable, reports from unaugmented ASOS stations will show “FAIR” for the sky/weather condition when there are few or no clouds (i.e., scattered or less) below 12,000 feet with no significant weather and/or obstructions to visibility. A note explaining the meaning of “FAIR” should appear after the MND header of all RWRs.

4.3.5 Format. The RWR is a tabular product.

<u>Product Format</u>	<u>Description of Entry</u>
ASaaii cccc ddhhmm	(WMO Heading)
RWRxxx	(AWIPS ID)
WEATHER ROUNDUP FOR “SUB-STATE REGION”, “STATE”, OR “MULTI-STATE REGION”	(MND)
NATIONAL WEATHER SERVICE city st	(Issuing Office)
time am/pm time_zone day mon dd yyyy	(Issuing time and date)
stZ001-005>015-ddhhmm-	(UGC: <u>Z</u> & Product expiration time)

[TEXT]

\$\$

(UGC Delimeter)

Name/Initials/Fcstr ID

(Optional)

Note: The “xxx” in this product is the modernized three-letter WFO identifier or the two-letter state abbreviation followed by a “space.”

4.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

5. **Maximum/Minimum Temperature and Precipitation Table (Product Category RTP).**

5.1 Mission Connection. The Maximum/Minimum Temperature and Precipitation Table (RTP) provides the maximum/minimum temperatures and 24-hour precipitation totals from available reporting stations for a sub-state region, an entire state, or a multi-state region. Maximum/minimum temperature values should be for the previous 12 to 24 hours, as appropriate (e.g., morning products should report the minimum temperature during the past 12 hours and the maximum temperature during the past 24 hours, while afternoon and evening products should report the maximum temperature in the past 12 hours and the minimum temperature in the past 24 hours). Available reporting stations are those that meet the criteria defined in National Weather Service Instruction (NWSI) 10-1302, Instrument Requirements and Standards for the NWS Surface Observing Programs (Land). WFOs, in coordination with their local customers and Regional Headquarters, will determine the regional extent of this product and which WFOs will issue sub-state, multi-state, or state product(s).

5.2 Issuance Guidelines.

5.2.1 Creation Software. The RTP can be automatically composed and transmitted by use of a standard applications program that decodes the surface aviation observations (RiverPro), or created by the AWIPS (or any other) text editor.

5.2.2 Issuance Criteria. The RTP is a routine product.

5.2.3 Issuance Time. The RTP should be issued at least twice daily; in the morning around 1230 hours UTC and in the afternoon/evening around 0030 hours UTC. Depending upon the time zone, WFOs may issue additional products to capture “calendar day” values as reports become available.

5.2.4 Valid Time. The RTP is generally valid up to 12 hours from the product issuance time.

5.2.5 Product Expiration Time. The RTP product expiration time may be up to 12 hours after issuance time.

5.2.6 Event Expiration Time. The RTP does not have an event expiration time.

5.3 Technical Description.

5.3.1 UGC Type. The RTP does not use UGC coding.

5.3.2 MND Broadcast Instruction Line. The RTP does not contain an MND Broadcast Instruction Line.

5.3.3 MND Product Type Line. The RTP MND is “MAX/MIN TEMPERATURE AND PRECIPITATION TABLE FOR “SUB-STATE REGION”, “STATE”, OR “MULTI-STATE REGION” where “SUB-STATE REGION”, “STATE”, OR “MULTI-STATE REGION” are replaced appropriately.

5.3.4 Content. Maximum and minimum temperatures (in degrees Fahrenheit) and 24-hour precipitation totals. Weather elements such as current weather and snow depth may be included, but any additional information should be kept to a minimum. WFOs may list the highest and lowest temperatures for their region or area at the bottom of the report. WFOs should clearly identify the valid time period for the reported data at the top of the text.

5.3.5 Format. The RTP is a tabular product.

Product Format

ABaaii cccc ddhhmm
RTPxxx

Description of Entry

(WMO Heading)
(AWIPS ID)

MAX/MIN TEMPERATURE AND PRECIPITATION TABLE FOR
“SUB-STATE REGION”, “STATE”, OR “MULTI-STATE REGION”
NATIONAL WEATHER SERVICE city st
time am/pm time_zone day mon dd yyyy

(MND)

(Issuing Office)
(Issuing time and date)

[TEXT]

\$\$

Name/Initials/Fcstr ID

(Optional)

Note: The “xxx” in this product is the modernized three-letter WFO identifier or the two-letter state abbreviation followed by a “space.”.

5.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

6. **Record Event Report (Product Category RER).**

6.1 Mission Connection. The Record Event Report (RER) contains meteorological and hydrological events that equal or exceed routine existing records. The RER will be used to report occurrences relating to both maxima and minima records for LCD sites.

6.2 Issuance Guidelines.

6.2.1 Creation Software. The RER is automatically composed whenever the CLIMATE program is run and an existing record value (which CLIMATE monitors) is met or exceeded. Alternatively, the RER may be composed using the AWIPS text editor or any other text editor.

6.2.2 Issuance Criteria. The RER is an event driven product.

6.2.3 Issuance Time. The RER will be issued on an as needed basis whenever an existing record value is met or exceeded.

6.2.4 Valid Time. The RER does not have a valid time.

6.2.5 Product Expiration Time. The RER does not have a product expiration time.

6.2.6 Event Expiration Time. The RER does not have an event expiration time.

6.3 Technical Description.

6.3.1 UGC Type. RERs do not use UGC coding.

6.3.2 MND Broadcast Instruction Line. The RER does not contain an MND Broadcast Instruction Line.

6.3.3 MND Product Type Line. The RER MND is “RECORD EVENT REPORT.”

6.3.4 Content. The RER should be used to report record occurrences of the following meteorological or hydrological events, as data availability allows. Events identified with an “*” should be automatically identified by the AWIPS Climate program.

Record Variable	For:
Temperature	
maximum	day*, month, season, all time
minimum	day*, month, season, all time
highest so early	spring
highest so late	fall
lowest so late	spring
lowest so early	fall
lowest maximum	day, month, season, all time
highest minimum	day, month, season, all time
Sea level pressure	
highest	all time
lowest	all time
Wind	
highest speed	all time
highest gust	all time
Largest hail size	all time
Most/least precipitation or snowfall	
within calendar day	day*, month, season, all time
within 24-hour period	month, season, all time
"storm" total	month, season, all time
Greatest snow depth	month, season, all time
Highest/lowest river stages	all time

6.3.5 Format. The RER is a text product.

<u>Product Format</u>	<u>Description of Entry</u>
SXaaii cccc ddhhmm	(WMO Heading)
RERxxx	(AWIPS ID)
RECORD EVENT REPORT	(MND)

NATIONAL WEATHER SERVICE city st
time am/pm time_zone day mon dd yyyy

(Issuing Office)
(Issuing time and
date)

[TEXT]

\$\$

Name/Initials/Fcstr ID

(Optional)

Note: The “xxx” in this product is the modernized three-letter WFO identifier.

6.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

7. Climatological Report (Daily) (Product Category CLI).

7.1 Mission Connection. The Climatological Report (Daily) (CLI) provides miscellaneous climatological data on a daily basis.

7.2 Issuance Guidelines.

7.2.1 Creation Software. The CLI should be composed by the AWIPS CLIMATE program. A text editor may be used if the proper tabular format and content are followed.

7.2.2 Issuance Criteria. The CLI will be issued for LCD sites and may be issued for non-LCD sites as appropriate. CLIs for LCD sites should be sent as separate products (i.e., unique AWIPS ID/WMO ID combination). CLIs for non-LCD sites may be sent as separate products or grouped together within an LCD product.

7.2.3 Issuance Time. The CLI will be issued at least twice daily. The first mandatory issuance will be between 12:30 a.m. and 5:00 a.m. local time to capture the previous calendar day’s (midnight-to-midnight Local Standard Time) data. The second mandatory issuance will be between 4:30 p.m. and 5:30 p.m. local time (before major local newscast times) to capture data for the current day. Other issuances may be made to meet local customer requirements (e.g., a late morning report to capture the current day morning low temperature, an early evening report to capture the final high temperature for the day, etc.)

7.2.4 Valid Time. The CLI is valid from the time of release until the next issuance.

7.2.5 Product Expiration Time. The CLI does not have a product expiration time.

7.2.6 Event Expiration Time. The CLI does not have an event expiration time.

7.3 Technical Description.

7.3.1 UGC Type. The CLI does not use UGC coding.

7.3.2 MND Broadcast Instruction Line. The CLI does not contain an MND Broadcast Instruction Line.

7.3.3 MND Product Type Line. The CLI MND is "CLIMATE REPORT."

7.3.4 Content. The CLI contains the standardized data shown below. All elements shown below are required for both mandatory daily issuances, except as identified in Note 3 below, for all CLIs year-round. Elements to be included in the optional, intermediate CLIs may be adapted to meet local needs. "MM" will be used to indicate missing data, as appropriate. WFOs may append specialized data to the end of the standard fixed-fields to meet the needs of local customers.

7.3.5 Format. The CLI is a tabular product. However, supplemental narrative information may be included to meet local customer needs. When specialized or additional information is appended to the standard format, it will be separated from the standard fixed-fields by double ampersands (&&). Double dollar signs (\$\$) will be used to signify the end of the product.

Product Format

Description of Entry

CDaaii cccc ddhhmm
CLIxxx

(WMO Heading)
(AWIPS ID)

CLIMATE REPORT
NATIONAL WEATHER SERVICE <WFO> <STATE>
<HMM> AM <LT> <DAY MMM DD YYYY>
.....
...THE <CITY1 NAME> CLIMATE SUMMARY FOR <MONTH DD YEAR>...

CLIMATE NORMAL PERIOD YYYY TO YYYY
CLIMATE RECORD PERIOD YYYY TO YYYY

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
.....							
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	000	0000 PM	000	YYYY	000	000	000
MINIMUM	000	0000 AM	000	YYYY	000	000	000
AVERAGE	000				000	000	000

PRECIPITATION (IN)

YESTERDAY	00.00	00.00	YYYY	00.00	00.00	00.00
MONTH TO DATE	00.00			00.00	00.00	00.00
SINCE <SEASON>	00.00			00.00	00.00	00.00
SINCE JAN 1	000.00			00.00	00.00	00.00

SNOWFALL (IN)

YESTERDAY	00.0	00.0	YYYY	00.0	00.0	00.0
MONTH TO DATE	000.0			00.0	000.0	000.0
SINCE <SEASON>	000.0			000.0	0000.0	0000.0
SINCE JUL 1	0000.0			000.0	0000.0	0000.0
SNOW DEPTH	000					

DEGREE DAYS

HEATING

YESTERDAY	000	00	000	000
MONTH TO DATE	0000	0000	0000	0000
SINCE <SEASON>	0000	0000	00000	0000
SINCE JUL 1	00000	00000	00000	00000

COOLING

YESTERDAY	00	00	000	00
MONTH TO DATE	0000	000	0000	0000
SINCE <SEASON>	0000	0000	0000	0000
SINCE JAN 1	0000	0000	0000	0000

WIND (MPH)

HIGHEST WIND SPEED	000	HIGHEST WIND DIRECTION <DIR>	(000)
HIGHEST GUST SPEED	000	HIGHEST GUST DIRECTION <DIR>	(000)
AVERAGE WIND SPEED	00.0		

SKY COVER

POSSIBLE SUNSHINE 000 PERCENT
AVERAGE SKY COVER 0.0

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.

<W1>
<W2>
<W3>
<ETC.>

RELATIVE HUMIDITY (PERCENT)

HIGHEST 000 0000 PM
LOWEST 000 0000 AM
AVERAGE 000

THE <CITY1 NAME> CLIMATE NORMALS FOR TODAY

NORMAL	RECORD	YEAR
--------	--------	------

```

MAXIMUM TEMPERATURE (F)  000      000      YYYY
MINIMUM TEMPERATURE (F)  000      000      YYYY

```

SUNRISE AND SUNSET

```

<MONTH DD YEAR>.....SUNRISE  0000 AM <LT>  SUNSET  0000 PM <LT>(today)
<MONTH DD YEAR>.....SUNRISE  0000 AM <LT>  SUNSET  0000 PM <LT>(tomorrow)

```

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

&& (Standard Format end indicator entered locally)

(<any additional local specialized climate data>

\$\$

Note 1: The “xxx” in this product is the three-letter WFO/LCD site identifier.

Note 2: <Season-to-date> may be locally set to alternate season/year-to-date.

Default <seasons> are defined as:

Winter - December, January, February
Spring - March, April, May
Summer - June, July, August
Fall - September, October, November

Note 3: WFOs may report only OBSERVED VALUEs for SNOWFALL. However, if a WFO elects to report ANY other snowfall field (i.e., RECORD VALUE, YEAR, NORMAL VALUE, DEPARTURE FROM NORMAL, or LAST YEAR), then all SNOWFALL fields will be reported.

7.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

7.5 Supporting Software. The AWIPS CLIMATE program uses the Automated Surface Observing System (ASOS) Daily Summary Message (DSM) to produce the CLI. The DSM is a coded message for NWS (National Centers for Environmental Prediction (NCEP), National Climate Data Center (NCDC), and Weather Forecast Office (WFO)) use only. Manual quality control of the DSM is not required. WFOs should correct erroneous or missing data in the CLI. WFOs may transmit corrections to the DSM or submit corrected data to NCDC via WS Form B-14, Notice of Correction to Records, as desired. The “PRIMARY DSM XMIT TIME” will be set to 00:15 A.M. local standard time (LST) for each ASOS site. Intermediate DSMs may be

generated and transmitted at any time to meet local needs. The ASOS Users Guide provides detailed guidance regarding the DSM.

8. **Climatological Report (Longer Term) (Product Category CLM).**

8.1 Mission Connection. The Climatological Report (Longer Term) (CLM) provides miscellaneous climatological data for a weekly, monthly, seasonal, or yearly basis.

8.2 Issuance Guidelines.

8.2.1 Creation Software. The CLM should be composed by the AWIPS CLIMATE program, or any text editor if the CLIMATE program is not available.

8.2.2 Issuance Criteria. The CLM will be issued for LCD sites and may be issued for non-CLM sites as appropriate. CLMs for LCD sites should be issued as separate products (i.e., unique AWIPS ID/WMO ID combination). CLMs for non-LCD sites may be issued as separate products or grouped together within an LCD product.

8.2.3 Issuance Time. The CLM will be issued at least monthly, no later than the 5th day of the following month. A monthly product can be generated using the AWIPS CLIMATE program anytime AFTER 2:30 a.m. the first day of the following month.

8.2.4 Valid Time. CLMs are valid from the time of release until the next issuance.

8.2.5 Product Expiration Time. The CLM does not have a product expiration time.

8.2.6 Event Expiration Time. The CLM does not have an event expiration time.

8.3 Technical Description.

8.3.1 UGC Type. The CLM does not use UGC coding.

8.3.2 MND Broadcast Instruction Line. The CLM does not contain an MND Broadcast Instruction Line.

8.3.3 MND Product Type Line. The CLM MND is "CLIMATE REPORT."

8.3.4 Content. The CLM contains the standardized data shown below. All elements shown below are required for all CLMs year-round. "MM" will be used to indicate missing data, as appropriate. WFOs may append specialized data to the end of the standard fixed-fields to meet the needs of local customers.

8.3.5 Format. The CLM is a tabular product. However, supplemental narrative information may be included to meet local customer needs. When specialized or additional information is appended to the standard format, it will be separated from the standard fixed-fields by double ampersands (&&). Double dollar signs (\$\$) will be used to signify the end of the product.

Product Format

CXaaii cccc ddhmm
CLMxxx

Description of Entry

(WMO Heading)
(AWIPS ID)

CLIMATE REPORT

NATIONAL WEATHER SERVICE <WFO> <ST>
<HMM> AM <LT> <DAY MMM DD YYYY>

.....

...THE <CITY_NAME> CLIMATE SUMMARY FOR THE MONTH OF <MONTH> <YEAR>...

CLIMATE NORMAL PERIOD YYYY TO YYYY
CLIMATE RECORD PERIOD YYYY TO YYYY

WEATHER	OBSERVED VALUE	DATE (S)	NORMAL VALUE	DEPART FROM NORMAL	LAST YEAR'S VALUE	DATE (S)
.....						
TEMPERATURE (F)						
RECORD						
HIGH	00	MM/DD/YYYY				
LOW	00	MM/DD/YYYY				
HIGHEST	00	MM/DD	00	00	MM	MM
LOWEST	00	MM/DD	00	00	MM	MM
AVG. MAXIMUM	00.0		00.0	0.0	MM	
AVG. MINIMUM	00.0		00.0	0.0	MM	
MEAN	00.0		00.0	0.0	MM	
DAYS MAX >= 90	00		0.0	0.0	MM	
DAYS MAX <= 32	00		0.0	0.0	MM	
DAYS MIN <= 32	00		0.0	0.0	MM	
DAYS MIN <= 0	00		0.0	0.0	MM	
PRECIPITATION (INCHES)						
RECORD						
MAXIMUM	0.00	YYYY				
MINIMUM	0.00	YYYY				
TOTALS	0.00		0.00	0.00	MM	
DAILY AVG.	0.00		0.00	0.00	MM	
DAYS >= .01	00		0.0	0.0	MM	
DAYS >= .10	00		0.0	0.0	MM	
DAYS >= .50	00		0.0	0.0	MM	
DAYS >= 1.00	00		0.0	0.0	MM	
GREATEST						
24 HR. TOTAL	0.00	MM/DD TO MM/DD			MM	

SNOWFALL (INCHES)

RECORDS

TOTAL	0.0	YYYY			
TOTALS	0.0		0.0	0.0	MM
SINCE 7/1	0.0		0.0	0.0	MM
SNOWDEPTH AVG.	0		0	0	MM
DAYS >= 1.0	0		0.0	0.0	MM
GREATEST					
SNOW DEPTH	0	MM			MM MM
24 HR TOTAL	0.0	MM/DD TO MM/DD			MM

DEGREE DAYS

HEATING TOTAL	000	000	00	MM
SINCE 7/1	0000	MM	MM	MM
COOLING TOTAL	00	00	00	MM
SINCE 1/1	00	MM	MM	MM

WIND (MPH)

AVERAGE WIND SPEED	0.0		
HIGHEST WIND SPEED/DIRECTION	00/000	DATE	MM/DD
HIGHEST GUST SPEED/DIRECTION	00/000	DATE	MM/DD

SKY COVER

POSSIBLE SUNSHINE (PERCENT)	00
AVERAGE SKY COVER	0.00
NUMBER OF DAYS FAIR	0
NUMBER OF DAYS PC	00
NUMBER OF DAYS CLOUDY	00

AVERAGE RH (PERCENT)	00
----------------------	----

WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	00	MIXED PRECIP	00
HEAVY RAIN	00	RAIN	00
LIGHT RAIN	00	FREEZING RAIN	00
LT FREEZING RAIN	00	HAIL	00
HEAVY SNOW	00	SNOW	00
LIGHT SNOW	00	SLEET	00
FOG	00	FOG W/VIS <= 1/4 MILE	00
HAZE	00		

- INDICATES NEGATIVE NUMBERS.

R INDICATES RECORD WAS SET OR TIED.

MM INDICATES DATA IS MISSING.

T INDICATES TRACE AMOUNT.

&& (Standard Format end indicator entered locally)

<any additional local specialized climate data>

\$\$

Note: The “xxx” in this product is the three-letter WFO/LCD site identifier.

8.4 Updates, Amendments, and Corrections. As needed, based upon customer needs.

8.5 Supporting Software. The AWIPS CLIMATE program uses the Automated Surface Observing System (ASOS) Monthly Summary Message (MSM) to produce the CLM. The MSM is a coded message for NWS (National Centers for Environmental Prediction (NCEP), National Climate Data Center (NCDC), and Weather Forecast Office (WFO)) use only. Manual quality control of the MSM is not required. WFOs should correct erroneous or missing data in the CLM. WFOs may transmit corrections to the MSM or submit corrected data to NCDC via WS Form B-14, Notice of Correction to Records, as desired. The “MSM XMIT TIME” will be set to 02:15 A.M. local standard time (LST) for each ASOS site. The ASOS Users Guide provides detailed guidance regarding the MSM.

9. **Preliminary Local Climatological Data (WS Form: F-6).**

9.1 Mission Connection. Preliminary Local Climatological Data (WS Form F-6), is for use by the National Climatic Data Center (NCDC) and the public.

9.2 Issuance Guidelines.

9.2.1 Creation Software. WFOs will create Preliminary Local Climatological Data (WS Forms: F-6 for Local Climate Data (LCD) stations for which the AWIPS CLIMATE program produces Daily (CLI) and Monthly (CLM) Climatological Reports.

9.2.2 Issuance Criteria. WFOs will, at a minimum, post on the World Wide Web the F-6 data for the entire preceding month no later than the 5th day of the following month. WFOs may post the F-6 data more frequently (i.e., month to date). WFOs will provide NCDC the name, e-mail address, and telephone number of a point of contact for questions relating to the F-6 data. The WFO F-6 web page (with links to all F-6 data) will include a disclaimer stating that the data is "unofficial" and a note stating that NCDC is the official source of climate data. The F-6 web page should be easily available through a minimum of web links.

9.2.3 Issuance Time. N/A.

9.2.4 Valid Time. N/A.

9.2.5 Product Expiration Time. N/A.

9.2.6 Event Expiration Time. N/A.

9.3 Technical Description.

9.3.1 UGC Type. N/A

9.3.2 MND Broadcast Instruction Line. N/A.

9.3.3 MND Product Type Line. N/A.

9.3.4 Content.

9.3.5 Format. WFO posting F-6s will use the standard format (following the key). Missing data will be indicated with an "M."

Key to daily columns in the F-6: (midnight to midnight Local Standard Time).

Column 1 - Day of month.

Column 2 - Maximum temperature for the day (nearest whole degree Fahrenheit) .

Column 3 - Minimum temperature for the day (nearest whole degree Fahrenheit) .

Column 4 - Average daily temperature (nearest whole degree Fahrenheit using columns 2 and 3).

Column 5 - Departure of the average temperature from normal (whole degrees Fahrenheit).

Column 6A - Heating Degree Days (HDD) using 65°F base, in whole degrees Fahrenheit.

Column 6B - Cooling Degree Days (CDD) using 65°F base, in whole degrees Fahrenheit.

Column 7 - Precipitation amount for the day (liquid equivalent, in hundredths of inches).

Column 8 - Snowfall amount for the day (includes sleet, hail, and glaze, in tenths of inches).

Column 9 - Snow depth to nearest whole inch (taken at 1200 Universal Coordinated Time).

Column 10 - Average daily wind speed in miles per hour.

Column 11 - Fastest two-minute sustained wind speed in miles per hour.

Column 12 - Direction of fastest wind speed; degrees clockwise from north.

Column 13 - Minutes of sunshine

Column 14 - Percent of possible sunshine.

Column 15 - Cloud cover from sunrise to sunset in tenths.

Column 16 - Weather codes (from weather key on F-6 form).

Column 17 - Peak wind gust in miles per hour.

Column 18 - Direction of peak wind gust in degrees clockwise from north.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION:
MONTH:
YEAR:
LATITUDE:
LONGITUDE:

TEMPERATURE IN F:					PCPN:	SNOW:	WIND		SUNSHINE:		SKY	PK WND						
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
=====																		
DY MAX MIN AVG DEP HDD CDD WTR SNW DPTH SPD SPD DIR MIN PSBL S-S WX SPD DR																		
=====																		
...for each day of month... ..see column key above...																		
=====																		
SM ...summations for columns 2, 3, 6A, 6B, 7, 8, 10, 13 and 15...																		
=====																		
AV (for columns 2, 3) FASTST PSBL % MAX(MPH)																		
MISC ----> # (and direction)																		
=====																		

NOTES:

LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION:
MONTH:
YEAR:
LATITUDE:
LONGITUDE:

[TEMPERATURE DATA]	[PRECIPITATION DATA]	SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY:	TOTAL FOR MONTH:	1 = FOG
DPTR FM NORMAL:	DPTR FM NORMAL:	2 = FOG REDUCING VISIBILITY
HIGHEST: ON	GRTST 24HR ON	TO 1/4 MILE OR LESS
LOWEST: ON	SNOW, ICE PELLETS, HAIL	3 = THUNDER
	TOTAL MONTH:	4 = ICE PELLETS
	GRTST 24HR ON	5 = HAIL
	GRTST DEPTH: ON	6 = GLAZE OR RIME
		7 = BLOWING DUST OR SAND:
		VSBY 1/2 MILE OR LESS
		8 = SMOKE OR HAZE
		9 = BLOWING SNOW
		X = TORNADO
[NO. OF DAYS WITH]	[WEATHER - DAYS WITH]	
MAX 32 OR BELOW:	0.01 INCH OR MORE:	
MAX 90 OR ABOVE:	0.10 INCH OR MORE:	
MIN 32 OR BELOW:	0.50 INCH OR MORE:	
MIN 0 OR BELOW:	1.00 INCH OR MORE:	
[HDD (BASE 65)]		
TOTAL THIS MO.	CLEAR (SCALE 0-3)	
DPTR FM NORMAL	PTCLDY (SCALE 4-7)	
SEASONAL TOTAL	CLOUDY (SCALE 8-10)	
DPTR FM NORMAL		
[CDD (BASE 65)]		
TOTAL THIS MO.		
DPTR FM NORMAL	[PRESSURE DATA]	
SEASONAL TOTAL	HIGHEST SLP ON	
DPTR FM NORMAL	LOWEST SLP ON	

9.4. Updates, Amendments, and Corrections. WFOs will perform a quality control check of the F-6 data before final posting for the month.

APPENDIX A - WFO Statements, Summaries, Tables Product Examples

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9. Preliminary Local Climatological Data, WS Form: F-6	A-19

1. Introduction. This section contains examples of WFO Statements, Summaries, and Tables.

2. Public Information Statement.

A.

NOUS41 KPBZ 120940
PNSPBZ
MDZ001-OHZ039>041-048>050-057>059-068-069-PAZ007>009-013>016-020>023-
029>032-WVZ001>004-012-021>023-041-121530-

PUBLIC INFORMATION STATEMENT
NATIONAL WEATHER SERVICE PITTSBURGH PA
438 AM EST WED FEB 12 2003

...EARLY MORNING WIND GUSTS ACROSS THE REGION...

AS OF 430AM EST THIS MORNING THE FOLLOWING WIND GUSTS OCCURRED AT
AIRPORTS ACROSS THE REGION...

49 MPH AT PITTSBURGH INTERNATIONAL AIRPORT AND ZANESVILLE...OHIO

48 MPH AT DUBOIS...PENNSYLVANIA

45 MPH AT WHEELING...WEST VIRGINIA

44 MPH AT FRANKLIN...PENNSYLVANIA AND NEW PHILADELPHIA...OHIO

43 MPH AT ALLEGHENY COUNTY AIRPORT...PENNSYLVANIA AND
OAKLAND...MARYLAND.

\$\$

B.

NOUS44 KBMX 292155
PNSBMX
ALZ011>050-300300-

PUBLIC INFORMATION STATEMENT
NATIONAL WEATHER SERVICE BIRMINGHAM AL
500 PM CDT SAT JUN 29 2002

...LIGHTNING SAFETY RULES...

IF YOU ARE OUTSIDE...GET INTO A LARGE...ENCLOSED BUILDING.
SUBSTANTIALLY CONSTRUCTED BUILDINGS TEND TO BE MUCH SAFER THAN

SMALL OR OPEN STRUCTURES. ALTERNATELY...SEEK SHELTER IN A SEDAN-TYPE / NON-CONVERTIBLE / VEHICLE.

IN GENERAL...FULLY ENCLOSED...SEDAN-TYPE / NON-CONVERTIBLE / VEHICLES WITH THE WINDOWS ROLLED UP PROVIDE GOOD SHELTER FROM LIGHTNING. AVOID CONTACT WITH METAL INSIDE THE VEHICLE.

INSIDE A HOME...AVOID USING THE TELEPHONE EXCEPT FOR EMERGENCIES. ALSO...STAY AWAY FROM WINDOWS.

AVOID BEING IN OR NEAR HIGH PLACES AND OPEN FIELDS...ISOLATED TREES...UNPROTECTED GAZEBOS...RAIN OR PICNIC SHELTERS...BASEBALL DUGOUTS...TOWERS...FLAGPOLES...LIGHT POLES...BLEACHERS OF ANY TYPE...METAL FENCES...CONVERTIBLE VEHICLES...GOLF CARTS...MOTORCYCLES...SCOOTERS...RIDING LAWN MOWERS...OR WATER /OCEAN...LAKE...SWIMMING POOLS...RIVERS...PONDS
...ETC./.

MOVE AWAY FROM OPEN WATER OR FROM OPEN TRACTORS OR OTHER FARM EQUIPMENT.

STAY AWAY FROM WIRE FENCES...CLOTHESLINES...METAL PIPES...RAILS OR OTHER METALLIC PATHS WHICH COULD CARRY LIGHTNING FROM SOME DISTANCE AWAY.

IN A FOREST SEEK SHELTER IN A LOW AREA UNDER A THICK GROWTH OF SMALL TREES. IN OPEN AREAS...GO TO A LOW PLACE SUCH AS A RAVINE OR VALLEY. BE ALERT FOR FLASH FLOODS.

IF YOU FEEL YOUR HAIR STAND ON END...LIGHTNING MAY BE ABOUT TO STRIKE. STAY ON THE BALLS OF YOUR FEET BUT CROUCH DOWN AND MAKE AS LOW A TARGET OF YOURSELF AS POSSIBLE. DO NOT LIE FLAT ON THE GROUND.

REMEMBER...THERE IS NO TRUTH TO THE OLD MYTH THAT LIGHTNING NEVER STRIKES THE SAME PLACE TWICE.

PRACTICE THE 30/30 RULE. THE 30/30 RULE FOR LIGHTNING SAFETY COULD SAVE YOUR LIFE.

THE FIRST 30 MEANS THAT YOU NEED TO TAKE COVER IF YOU HEAR THUNDER WITHIN 30 SECONDS OF THE LIGHTNING FLASH. THEN WAIT AT LEAST 30 MINUTES AFTER THE LAST FLASH OR THUNDER IN ORDER TO RESUME NORMAL ACTIVITY - THE ALL CLEAR SIGNAL.

LIGHTNING RESEARCH HAS CONFIRMED THAT CONSECUTIVE LIGHTNING STRIKES CAN OCCUR AS MUCH AS SIX MILES APART. PEOPLE OFTEN DO NOT PERCEIVE LIGHTNING TO BE CLOSE IF IT IS TWO MILES OR MORE AWAY...BUT THE RISK OF THE NEXT STRIKE BEING AT YOUR LOCATION MAY ACTUALLY BE VERY HIGH. MANY LIGHTNING CASUALTIES OCCUR IN THE BEGINNING AS A THUNDERSTORM APPROACHED...BECAUSE PEOPLE IGNORE THESE PRECURSORS. WHEN THUNDERSTORMS ARE IN THE AREA BUT NOT OVERHEAD...THE LIGHTNING THREAT CAN EXIST EVEN IF IT IS SUNNY AT YOUR LOCATION.

\$\$

3.. Weather Summary

A.

AWUS83 KOMA 201424
RWSNE
NEZ001>093-210200

WEATHER SUMMARY FOR NEBRASKA
NATIONAL WEATHER SERVICE OMAHA/VALLEY NE
924 AM CDT MON MAY 20 2002

SKIES REMAINED MOSTLY CLOUDY WEST OF AN AINSWORTH TO ORD TO SUPERIOR LINE MONDAY MORNING. EVEN A FEW SPRINKLES WERE INDICATED BY RADAR OVER SOUTH CENTRAL AREAS. SKIES WERE SUNNY ACROSS THE EAST...AND ALSO OVER PARTS OF THE PANHANDLE.

TEMPERATURES AROUND THE STATE BY 9 AM CDT WERE IN THE UPPER 40S AND 50S...RANGING FROM 46 DEGREES AT AINSWORTH UP TO 56 DEGREES AT MCCOOK. OVERNIGHT LOWS THROUGH 7 AM CDT WERE ABOVE FREEZING... VARYING FROM 34 DEGREES AT AINSWORTH...COLUMBUS...AND ONEILL... UP TO 50 DEGREES AT CHADRON...HASTINGS...HOLDREGE...LEXINGTON... AND NORTH PLATTE.

WINDS THIS MORNING WERE EAST AT LESS THAN 15 MPH ACROSS THE EAST...AND SOUTHEAST AT 10 TO 20 MPH WITH AREAS OF HIGHER GUSTS OVER WESTERN NEBRASKA.

\$\$

KLEMM

B.

AWUS81 KLWX 230852
RWSLWX
MDZ002>007-009>011-013-014-016>018-WVZ048>055-VAZ021-025>031-036>042-
050>057-DCZ001-211000-

WEATHER SUMMARY FOR MARYLAND WEST OF THE CHESAPEAKE BAY AND EAST OF GARRETT COUNTY... THE DISTRICT OF COLUMBIA... NORTHERN VIRGINIA... THE NORTHERN AND CENTRAL SHENANDOAH VALLEY AND THE EASTERN PANHANDLE OF WEST VIRGINIA.
NATIONAL WEATHER SERVICE BALTIMORE/WASHINGTON
500 AM EDT WED MAY 22 2002

SKIES WERE CLEAR ACROSS THE REGION EARLY THIS MORNING. EARLY MORNING TEMPERATURES WERE IN THE 30S AND 40S.

HIGH PRESSURE WILL REMAIN OVER THE REGION TODAY. UNDER SUNNY SKIES TEMPERATURES WILL CLIMB WELL INTO THE 70S.

\$\$

4. Weather Roundup.

ASUS71 KWBC 171404
SWRVA

NWSI 10-501, April 1, 2004

WEATHER ROUNDUP FOR VIRGINIA
NATIONAL WEATHER SERVICE BLACKSBURG VA
000 AM EDT WED SEP 17 2003

Note: "fair" indicates few or no clouds below 12,000 feet with no significant weather and/or obstructions to visibility. *=Station that does not report precipitation (E.G. rain,snow,etc.), thunder or fog.

VAZ042-051-052>054-056-171500-
IN NORTHERN VIRGINIA

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
WASH NATIONAL	MOSUNNY	70	59	68	NE9	30.28R	
WASH DULLES	SUNNY	67	56	67	N6	30.29R	

&&

VAZ020-022-025-037-045-171500-
IN WESTERN VIRGINIA

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CHARLOTTESVILL	SUNNY	67	56	67	CALM	30.26R	
ROANOKE	SUNNY	63	54	72	N10	30.29R	
LYNCHBURG	SUNNY	67	52	58	VRB6	30.27R	
DANVILLE	SUNNY	68	55	63	NE12	30.24R	

\$\$

VAZ071-094-095-098-099-171500-
IN SOUTHEASTERN VIRGINIA

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
RICHMOND	MOSUNNY	70	61	73	N10	30.22R	
NEWPORT NEWS	SUNNY	73	62	68	E15G25	30.17R	
NORFOLK	MOSUNNY	75	64	68	E16G25	30.14S	
WALLOPS ISLAND	SUNNY	73	58	59	NE25G31	30.20R	

\$\$

B.

ASHW40 PHFO 171410
SWRHI
WEATHER ROUNDUP FOR HAWAIIAN ISLANDS
NATIONAL WEATHER SERVICE HONOLULU HI
400 AM HST WED SEP 17 2003

NOTE..."FAIR" INDICATES FEW OR NO CLOUDS BELOW 12,000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

HIZ001-171500-
KAUAI-

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
LIHUE	MOCLDY	77	70	79	NE9	29.97S	

\$\$

NWSI 10-501, April 1, 2004

HIZ002-171500-

OAHU-

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
HONOLULU	PTCLDY	77	69	76	E6	29.95S	
KALAELOA	CLEAR	73	67	81	NE3	29.96S	
KANEOHE MCB	PTCLDY	78	70	76	E5	29.96F	

\$\$

HIZ003-005-006-171500-

MAUI-MOLOKAI-LANAI-

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
KAHULUI	PTCLDY	75	65	70	NE14	29.95F	HAZE
MOLOKAI AIRPT	CLEAR	74	68	81	NE9	29.96F	

\$\$

HIZ004-007-008-171500-

NORTH AND EAST HAWAII-WEST HAWAII-SOUTH HAWAII-

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
KAILUA KONA	CLOUDY	78	64	61	E7	29.92S	
HILO	CLOUDY	72	66	81	S5	29.96S	

\$\$

5. Max/Min Temperature and Precipitation Table

A.

ABUS21 KALY 061219

RTPNY

MAX/MIN TEMPERATURE AND PRECIPITATION TABLE FOR NEW YORK

NATIONAL WEATHER SERVICE ALBANY, NY

717 AM EST THU NOV 06 2003

STATION	OVERNIGHT	YESTERDAYS	24 HOUR
	LOW 12HRS - 7AM	HIGH 24HRS - 7AM	PRECIPITATION ENDING 7AM
DUNKIRK NY	43	69	0.01
BUFFALO NY	39	68	0.01
NIAGARA FALLS NY	37	68	T
ROCHESTER NY	41	69	0.03
DANSVILLE NY	47	69	0.01
PENN YAN NY	43	65	T
ELMIRA NY	44	65	0.13
WATERTOWN NY	42	67	0.03
FULTON NY	44	66	0.12
SYRACUSE NY	45	66	T
BINGHAMTON NY	41	59	0.29
UTICA NY	43	56	0.06
MASSENA NY	39	66	0.32
SARANAC LAKE NY	35	56	0.13
GLENS FALLS NY	48	52	0.08
ALBANY NY	45	57	0.14
POUGHKEEPSIE NY	50	54	0.45
MONTGOMERY NY	51	55	0.49
LA GUARDIA AP NY	55	61	0.23

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JFK AIRPORT NY	58	61	1.08
ISLIP NY	57	63	1.43

\$\$

B.

ABUS21 KGYX 061223

RTPGYX

MAX/MIN TEMP AND PRECIPITATION TABLE FOR ME AND NH

NATIONAL WEATHER SERVICE GRAY, ME

722 AM EST THU NOV 06 2003

STATION	YDA MAX	THIS AM MIN	24HR PCPN ENDED THIS AM	SNOW DEPTH
MAINE...				
AUGUSTA	46	37	0.23	
BANGOR	47	37	0.20	
BAR HARBOR	54	46	0.22	
CARIBOU	43	39	0.02	
FRENCHVILLE	44	33	0.07	
FRYEBURG	53	36	0.25	
GRAY	41	38	0.37	
GREENVILLE	51	37		
HOULTON	47	40	0.15	
LEWISTON	45	39		
MILLINOCKET	49	39	0.29	
PORTLAND	47	42	0.32	
PRESQUE ISLE	43	41	0.08	
ROCKLAND	52	45		
RUMFORD	41	28		
SANFORD	54	43		
WATERVILLE	48	37	0.19	
WISCASSET	50	41	0.44	
NEW HAMPSHIRE...				
BERLIN	51	35	0.06	
CONCORD	50	42	0.33	
JAFFREY	52	44	0.22	
KEENE	45	41		
LACONIA	52	43	0.17	
LEBANON	47	36	0.14	
MANCHESTER	49	41	0.29	
MOUNT WASHINGTON	46	27	0.64	
ROCHESTER	52	42		
WHITEFIELD	49	37	0.08	

THE PRECIPITATION SENSOR ON THE AUTOMATED OBSERVING EQUIPMENT
LOCATED AT MOST STATIONS DOES NOT PROVIDE ACCURATE WATER EQUIVALENTS
(24HR PCPN) FOR FREEZING AND FROZEN PRECIPITATION EVENTS.

\$\$

C.

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ABUS63 KLBK 061548

RTPLBF

MAX/MIN TEMPERATURE AND PRECIPITATION TABLE FOR NEBRASKA

NATIONAL WEATHER SERVICE NORTH PLATTE NE

933 AM CST THU NOV 06 2003

.BR LBF 1106 C DH00/TX/DH06/TAIRZP/PPDRZ/SF/SD

:

: WESTERN AND NORTH CENTRAL NEBRASKA - TEMPERATURE AND PRECIPITATION

: VALUES REPRESENT YESTERDAYS HIGHS... .LOW OVER THE LAST 12 HOURS

: AND PRECIPITATION OVER THE LAST 24 HOURS ENDING AT 6 AM CST

:

STATION NAME	MAX TEMP	/	MIN TEMP	/	24-HOUR PRECIP	/	SNOW FALL	/	SNOW DEPTH
--------------	-------------	---	-------------	---	-------------------	---	--------------	---	---------------

:

LBF : NORTH PLATTE ARPT	33	/	25	/	0.00	/	0.0	/	0
VTN : VALENTINE ARPT	23	/	9	/	T	/	T	/	2
BBW : BROKEN BOW ARPT	28	/	23	/	0.00	/	M	/	M
IML : IMPERIAL ARPT	29	/	28	/	T	/	M	/	M
ANW : AINSWORTH ARPT	23	/	18	/	T	/	M	/	M
ONL : O'NEILL ARPT	23	/	13	/	0.04	/	M	/	M
OGA : OGALLALA ARPT	30	/	28	/	T	/	M	/	M

.END

.BR LBF 1106 C DH07/TX/TN/PP/SF/SD

:

: COOPERATIVE OBSERVATIONS

: VALUES ARE FOR THE PREVIOUS 24 HOURS ENDING AT 7 AM CST

:

ARNN1 : ARNOLD	29	/	24	/	0.00	/	M	/	M
ARHN1 : ARTHUR	29	/	19	/	T	/	1.0	/	1
CHMN1 : CHAMBERS	24	/	18	/	T	/	M	/	M
ECSN1 : ERICSON	26	/	21	/	0.00	/	M	/	M
HAYN1 : HAYES CENTER	31	/	22	/	M	/	M	/	M
HYSN1 : HAY SPRINGS	24	/	9	/	T	/	T	/	4
HYNN1 : HYANNIS	26	/	14	/	0.00	/	M	/	M
MDDN1 : MADRID	30	/	21	/	0.00	/	M	/	M
STAN1 : STAPLETON	31	/	18	/	T	/	T	/	T
SWAN1 : SWAN LAKE	26	/	18	/	T	/	1.0	/	1
WAUN1 : WAUNETA	30	/	27	/	M	/	M	/	M
BUTN1 : BUTTE	22	/	11	/	0.00	/	0.0	/	1
CTSN1 : CURTIS	33	/	22	/	M	/	M	/	M
ENDN1 : ENDERS	30	/	23	/	0.00	/	M	/	M
IMPN1 : IMPERIAL	29	/	23	/	M	/	M	/	M
CABN1 : MEDICINE CREEK DM	35	/	20	/	0.00	/	0.0	/	0
OSKN1 : OSHKOSH 10NE	M	/	M	/	0.01	/	0.2	/	0
KNGN1 : KINGSLEY DAM	M	/	M	/	T	/	M	/	M
KIGN1 : KILGORE	23	/	5	/	M	/	M	/	M

.END

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6. Record Event Report.

A.

SXUS71 KBOX 0401340
RERBOX

RECORD EVENT REPORT
NATIONAL WEATHER SERVICE TAUNTON MA
940 AM EDT TUE JUN 4 2002

...RECORD HIGH TEMPERATURE SET AT BOSTON MA...

A RECORD HIGH TEMPERATURE OF 80 DEGREES WAS SET AT BOSTON TODAY. THIS BREAKS
THE OLD RECORD OF 75 DEGREES SET IN 1999.

\$\$

B.

SXUS72 KJAX 220230
RERJAX

RECORD EVENT REPORT
NATIONAL WEATHER SERVICE JACKSONVILLE FL
1030 PM EDT TUE MAY 21 2002

...RECORD LOW MAXIMUM TEMPERATURES TODAY /TUE 5/21/...

	NEW RECORD	PREVIOUS RECORD
JACKSONVILLE FL /JAX/	75	76 IN 1919

\$\$

HESS

C.

SXUS75 KTFX 230725
RERTFX

RECORD EVENT REPORT
NATIONAL WEATHER SERVICE GREAT FALLS MT
125 AM MDT THU MAY 23 2002

...RECORD COOL MAXIMUM TEMPERATURES IN NORTH CENTRAL AND SOUTHWEST MONTANA...

LOCATION	NEW RECORD	OLD RECORD	YEAR SET
CUT BANK	33	43	1927
GREAT FALLS	40	43	1903
BELGRADE FIELD	40	49	1971

...RECORD PRECIPITATION IN NORTH CENTRAL AND SOUTHWEST MONTANA...

LOCATION	NEW RECORD	OLD RECORD	YEAR SET
BOZEMAN	1.01	0.97	1981

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HELENA 0.96 0.86 1981

...RECORD SNOWFALL IN NORTH CENTRAL AND SOUTHWEST MONTANA...

LOCATION	NEW RECORD	OLD RECORD	YEAR SET
GREAT FALLS	1.4		T 1993

\$\$

7. Climatological Report (Daily).

A.

CDUS45 KTFX 240803
CLITFX

CLIMATE REPORT
NATIONAL WEATHER SERVICE GREAT FALLS MT
201 AM MDT FRI MAY 24 2002

.....

...THE GREAT FALLS CLIMATE SUMMARY FOR MAY 23 2002...

CLIMATE NORMAL PERIOD 1971 TO 2000
CLIMATE RECORD PERIOD 1892 TO 2002

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
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.....

TEMPERATURE (F)

YESTERDAY

MAXIMUM	50	525 PM	88	1988	67	-17	84
MINIMUM	31	549 AM	30	1949	40	-9	45
AVERAGE	41				54	-13	65

PRECIPITATION (IN)

YESTERDAY	0.06		0.98	1914	0.09	-0.03	0.00
MONTH TO DATE	1.64				1.81	-0.17	0.51
SINCE OCT 1	4.18				7.60	-3.42	5.14
SINCE JAN 1	3.32				5.41	-2.09	3.14

SNOWFALL (IN)

YESTERDAY	0.6		3.0	1949	0.0	0.6	0.0
MONTH TO DATE	6.7				1.9	4.8	1.6
SINCE MAR 1	31.2				22.5	8.7	18.5
SINCE JUL 1	58.0				62.6	-4.6	57.7
SNOW DEPTH	0						

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DEGREE DAYS

HEATING

YESTERDAY	24	10	14	0
MONTH TO DATE	415	300	115	276
SINCE MAR 1	2680	1925	755	1849
SINCE JUL 1	7521	7513	8	7781

COOLING

YESTERDAY	0	0	0	0
MONTH TO DATE	6	0	6	4
SINCE MAR 1	6	1	5	4
SINCE JAN 1	6	1	5	4

.....

WIND (MPH)

HIGHEST WIND SPEED	17	HIGHEST WIND DIRECTION	NW (330)
HIGHEST GUST SPEED	21	HIGHEST GUST DIRECTION	N (340)
AVERAGE WIND SPEED	8.0		

SKY COVER

POSSIBLE SUNSHINE MM
AVERAGE SKY COVER 0.7

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
LIGHT SNOW
FOG

RELATIVE HUMIDITY (PERCENT)

HIGHEST	100	1200 AM
LOWEST	45	200 PM
AVERAGE	73	

.....

THE GREAT FALLS CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	67	90	1922
MINIMUM TEMPERATURE (F)	41	30	1995

SUNRISE AND SUNSET

MAY 24 2002.....	SUNRISE	539 AM MDT	SUNSET	907 PM MDT
MAY 25 2002.....	SUNRISE	538 AM MDT	SUNSET	908 PM MDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.

MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

\$\$

B.

CDUS45 KMSO 232233
CLIMSO

CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA MT
431 PM MDT THU MAY 23 2002

.....

...THE MISSOULA CLIMATE SUMMARY FOR MAY 23 2002...
VALID TODAY AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1971 TO 2000
CLIMATE RECORD PERIOD 1893 TO 2002

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
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.....

TEMPERATURE (F)
TODAY

MAXIMUM	45	250 PM	89	1941	68	-23	88
MINIMUM	36	537 AM	26	1966	41	-5	42
AVERAGE	41				55	-14	65

PRECIPITATION (IN)

TODAY	T	1.10	1980	0.07	-0.07	0.00
MONTH TO DATE	1.42			1.41	0.01	0.22
SINCE OCT 1	8.07			8.23	-0.16	6.92
SINCE JAN 1	4.39			5.29	-0.90	3.53

SNOWFALL (IN)

TODAY	T
MONTH TO DATE	4.1
SINCE JAN 1	32.7
SINCE JUL 1	52.1
SNOW DEPTH	0

DEGREE DAYS

HEATING

TODAY	24	10	14	0
MONTH TO DATE	414	300	114	294
SINCE MAR 1	2179	1748	431	1804
SINCE JUL 1	7209	7360	-151	7900

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COOLING
TODAY 0 0 0
MONTH TO DATE 5 0 5 0
SINCE MAR 1 5 0 5 0
SINCE JAN 1 5 0 5 0

.....
WIND (MPH)
HIGHEST WIND SPEED 17 HIGHEST WIND DIRECTION E (110)
HIGHEST GUST SPEED 18 HIGHEST GUST DIRECTION E (100)
AVERAGE WIND SPEED 9.6

SKY COVER
POSSIBLE SUNSHINE MM
AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
LIGHT SNOW

RELATIVE HUMIDITY (PERCENT)
HIGHEST 85 1200 AM
LOWEST 57 1100 AM
AVERAGE 71

.....
THE MISSOULA CLIMATE NORMALS FOR TOMORROW
NORMAL RECORD YEAR
MAXIMUM TEMPERATURE (F) 68 93 1934
MINIMUM TEMPERATURE (F) 41 28 1916

SUNRISE AND SUNSET
MAY 23 2002.....SUNRISE 553 AM MDT SUNSET 914 PM MDT
MAY 24 2002.....SUNRISE 552 AM MDT SUNSET 915 PM MDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

\$\$

C..

CDUS45 KMSO 241436
CLIMSO

CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA MT
835 AM MDT FRI MAY 24 2002

.....

...THE MISSOULA CLIMATE SUMMARY FOR MAY 24 2002...
VALID AS OF 0800 AM LOCAL TIME.

CLIMATE NORMAL PERIOD 1971 TO 2000
CLIMATE RECORD PERIOD 1893 TO 2002

WEATHER ITEM	OBSERVED VALUE	RECORD VALUE	YEAR	NORMAL VALUE
.....				
TEMPERATURE (F)				
TODAY				
MINIMUM	37	28	1916	41

PRECIPITATION (IN)
TODAY 0.00

.....

SUNRISE AND SUNSET					
MAY 24 2002.....	SUNRISE	552 AM MDT	SUNSET	915 PM MDT	
MAY 25 2002.....	SUNRISE	551 AM MDT	SUNSET	916 PM MDT	

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

\$\$

D.

CDUS44 KCRP 171141
CLICRP

CLIMATE REPORT
NATIONAL WEATHER SERVICE CORPUS CHRISTI TX
641 AM CDT WED SEP 17 2003

.....

...THE CORPUS CHRISTI CLIMATE SUMMARY FOR SEPTEMBER 16 2003...

CLIMATE NORMAL PERIOD 1971 TO 2000
CLIMATE RECORD PERIOD 1887 TO 2003

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
--------------	-------------------	---------------	-----------------	------	-----------------	-----------------------------	--------------

.....

TEMPERATURE (F)

YESTERDAY							
MAXIMUM	83	1141 AM	101	1954	90	-7	81
MINIMUM	73	647 AM	62	1989	72	1	73
AVERAGE	78		81		-3	77	

PRECIPITATION (IN)

YESTERDAY	0.74		5.60	1922	0.17	0.57	0.67
MONTH TO DATE	8.70				2.66	6.04	4.34
SINCE MAR 1	19.30				18.99	0.31	13.88
SINCE JAN 1	21.66				22.45	-0.79	14.46

SNOWFALL (IN)

YESTERDAY	0.0
MONTH TO DATE	0.0
SINCE SEP 1	0.0
SINCE JUL 1	0.0
SNOW DEPTH	0

DEGREE DAYS

HEATING

YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE SEP 1	0	0	0	0
SINCE JUL 1	0	0	0	0

COOLING

YESTERDAY	13	16	-3	12
MONTH TO DATE	252	277	-25	280
SINCE SEP 1	252	277	-25	280
SINCE JAN 1	2811	2816	-5	3114

.....

WIND (MPH)

HIGHEST WIND SPEED	20	HIGHEST WIND DIRECTION	E (80)
HIGHEST GUST SPEED	22	HIGHEST GUST DIRECTION	E (90)
AVERAGE WIND SPEED	9.7		

SKY COVER
 POSSIBLE SUNSHINE 24 PERCENT
 AVERAGE SKY COVER MM

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
 HEAVY RAIN
 RAIN
 LIGHT RAIN
 FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST MM
 LOWEST MM
 AVERAGE MM

.....

THE CORPUS CHRISTI CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	90	98	1997
			1995
MINIMUM TEMPERATURE (F)	72	54	1903

SUNRISE AND SUNSET

SEPTEMBER 17 2003.....	SUNRISE	716 AM CDT	SUNSET	732 PM CDT
SEPTEMBER 18 2003.....	SUNRISE	716 AM CDT	SUNSET	731 PM CDT

- INDICATES NEGATIVE NUMBERS.
 R INDICATES RECORD WAS SET OR TIED.
 MM INDICATES DATA IS MISSING.
 T INDICATES TRACE AMOUNT.

&&

.....

...THE VICTORIA CLIMATE SUMMARY FOR SEPTEMBER 16 2003...

CLIMATE NORMAL PERIOD 1971 TO 2000
 CLIMATE RECORD PERIOD 1890 TO 2003

WEATHER ITEM	OBSERVED TIME	RECORD YEAR	NORMAL	DEPARTURE	LAST
	VALUE (LST)	VALUE	VALUE	FROM	YEAR
				NORMAL	

.....
 TEMPERATURE (F)
 YESTERDAY

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MAXIMUM	86	105 PM	100	1954	90	-4	79
MINIMUM	70	350 AM	55	1945	70	0	72
AVERAGE	78				80	-2	76

PRECIPITATION (IN)

YESTERDAY	0.09	2.29 1998	0.17	-0.08	0.04
MONTH TO DATE	5.70		2.56	3.14	3.53
SINCE MAR 1	22.34		23.81	-1.47	23.01
SINCE JAN 1	26.04		28.29	-2.25	23.87

SNOWFALL (IN)

YESTERDAY	0.0
MONTH TO DATE	0.0
SINCE SEP 1	0.0
SINCE JUL 1	0.0
SNOW DEPTH	0

DEGREE DAYS

HEATING					
YESTERDAY	0	0	0	0	
MONTH TO DATE	0	1	-1	0	
SINCE SEP 1	0	1	-1	0	
SINCE JUL 1	0	1	-1	0	

COOLING

YESTERDAY	13	15	-2	11
MONTH TO DATE	241	265	-24	262
SINCE SEP 1	241	265	-24	262
SINCE JAN 1	2718	2654	64	2771

.....

WIND (MPH)

HIGHEST WIND SPEED	22	HIGHEST WIND DIRECTION	SE (120)
HIGHEST GUST SPEED	26	HIGHEST GUST DIRECTION	E (110)
AVERAGE WIND SPEED	8.1		

SKY COVER

POSSIBLE SUNSHINE	MM
AVERAGE SKY COVER	MM

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.

HEAVY RAIN

RAIN

LIGHT RAIN

FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST MM
 LOWEST MM
 AVERAGE MM

.....

THE VICTORIA CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	90	101	1911
MINIMUM TEMPERATURE (F)	70	55	1945

SUNRISE AND SUNSET
 SEPTEMBER 17 2003.....SUNRISE 714 AM CDT SUNSET 731 PM CDT
 SEPTEMBER 18 2003.....SUNRISE 714 AM CDT SUNSET 731 PM CDT

- INDICATES NEGATIVE NUMBERS.
 R INDICATES RECORD WAS SET OR TIED.
 MM INDICATES DATA IS MISSING.
 T INDICATES TRACE AMOUNT.

&&

MISCELLANEOUS DATA
 RIVER INFORMATION FOR THE GUADALUPE RIVER AT MOODY STREET BRIDGE...9.24 FEET.

\$\$

MJ

8. Climatological Report (Longer Term).

CXUS52 KCAE 010809
 CLMCAE

CLIMATE REPORT
 NATIONAL WEATHER SERVICE COLUMBIA SC
 300 AM EDT WED MAY 1 2002

...THE COLUMBIA METRO AIRPORT CLIMATE SUMMARY FOR THE MONTH OF APRIL 2002...

CLIMATE NORMAL PERIOD 1971 TO 2000
 CLIMATE RECORD PERIOD 1887 TO 2002

WEATHER	OBSERVED VALUE	DATE (S)	NORMAL VALUE	DEPART FROM NORMAL
.....				
TEMPERATURE (F)				
RECORD				
HIGH	96	04/18/1896		
LOW	26	04/20/1983		
HIGHEST	92	04/19	MM	MM

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LOWEST	41	04/05	MM	MM
AVG. MAXIMUM	79.8		75.7	4.1
AVG. MINIMUM	58.1		50.7	7.4
MEAN	69.0		63.2	5.8
DAYS MAX >= 90	4			
DAYS MAX <= 32	0			
DAYS MIN <= 32	0			
DAYS MIN <= 0	0			

PRECIPITATION (INCHES)

RECORD				
MAXIMUM	10.76	1936		
MINIMUM	0.29	1994		
TOTALS	1.60		2.98	-1.38
DAILY AVG.	0.05		0.10	-0.05
DAYS >= .01	7			
DAYS >= .10	3			
DAYS >= .50	2			
DAYS >= 1.00	0			
GREATEST				
24 HR. TOTAL	0.69	04/10 TO 04/11		

SNOWFALL (INCHES)

TOTALS	0.0
SINCE 7/1	5.0
DAYS >= TRACE	0

DEGREE DAYS

HEATING TOTAL	44	126	-82
SINCE 7/1	2150	2566	-416
COOLING TOTAL	170	71	99
SINCE 1/1	219	94	125

.....

WIND (MPH)

AVERAGE WIND SPEED	7.0		
HIGHEST WIND SPEED/DIRECTION	30/290	DATE	04/22
HIGHEST GUST SPEED/DIRECTION	35/290	DATE	04/22

SKY COVER

POSSIBLE SUNSHINE (PERCENT)	MM
AVERAGE SKY COVER	0.60
NUMBER OF DAYS FAIR	5
NUMBER OF DAYS PC	17
NUMBER OF DAYS CLOUDY	8

AVERAGE RH (PERCENT)	63
----------------------	----

WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	3	MIXED PRECIP	0
HEAVY RAIN	2	RAIN	4
LIGHT RAIN	10	FREEZING RAIN	0
LT FREEZING RAIN	0	HAIL	0
HEAVY SNOW	0	SNOW	0
LIGHT SNOW	0	SLEET	0

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FOG 11 FOG W/VIS <= 1/4 MILE 2
HAZE 1

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

\$\$

9. Preliminary Local Climatological Data, WS Form: F-6.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: RIVERTON
MONTH: SEPTEMBER
YEAR: 2003
LATITUDE: 43 2 N
LONGITUDE: 108 27 W

TEMPERATURE IN F:					:PCPN:		SNOW:		WIND		:SUNSHINE: SKY					:PK WND		
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
AVG MX 2MIN																		
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
1	80	50	65	2	0	0	0.00	0.0	M	6.2	13	320	M	M	0		15	320
2	79	57	68	5	0	3	0.00	0.0	M	6.4	15	80	M	M	2		17	90
3	79	55	67	5	0	2	0.00	0.0	M	5.4	15	110	M	M	0		18	120
4	85	53	69	7	0	4	0.00	0.0	M	6.3	12	320	M	M	0		13	100
5	84	55	70	9	0	5	0.01	0.0	M	8.1	17	190	M	M	2		22	260
6	79	56	68	7	0	3	0.00	0.0	M	7.9	23	320	M	M	1		26	330
7	77	56	67	6	0	2	T	0.0	M	9.5	16	270	M	M	0		18	280
8	78	46	62	2	3	0	T	0.0	M	8.5	40	220	M	M	3		49	240
9	72	43	58	-2	7	0	0.04	0.0	M	8.5	26	170	M	M	0		33	180
10	52	44	48	-11	17	0	0.10	0.0	M	9.7	21	20	M	M	6	1	25	20
11	68	39	54	-5	11	0	0.00	0.0	M	12.5	32	310	M	M	3	1	40	320
12	66	38	52	-7	13	0	0.23	0.0	M	10.8	38	20	M	M	6	1	44	20
13	57	33	45	-13	20	0	0.00	0.0	M	5.7	10	30	M	M	1		13	40
14	68	33	51	-7	14	0	0.00	0.0	M	5.3	12	180	M	M	0		13	180
15	76	42	59	2	6	0	0.00	0.0	M	6.8	14	320	M	M	0		16	310
16	77	52	65	8	0	0	0.00	0.0	M	11.8	29	250	M	M	1		33	240
17	58	32	45	-12	20	0	0.31	1.5	M	12.4	22	350	M	M	9	1	28	30
18	53	28	41	-15	24	0	0.00	0.0	M	5.1	12	240	M	M	1	8	13	150
19	65	37	51	-5	14	0	0.00	0.0	M	7.5	15	270	M	M	0		16	280
20	67	44	56	1	9	0	0.00	0.0	M	10.0	17	20	M	M	0		20	40
21	67	37	52	-3	13	0	0.00	0.0	M	8.5	21	30	M	M	0		25	30
22	72	36	54	-1	11	0	0.00	0.0	M	6.5	15	280	M	M	0		16	290
23	81	44	63	9	2	0	0.00	0.0	M	14.3	29	300	M	M	0		36	310
SM	1640	1010			184	19	0.69		1.5	193.7			M		35			
AV	71.3	43.9								8.4	FASTST		PSBL	%	2		MAX (MPH)	
								MISC	----	40	220						49	240

NOTES:
LAST OF SEVERAL OCCURRENCES
COLUMN 17 PEAK WIND IN M.P.H.

NWSI 10-501, April 1, 2004

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: RIVERTON
MONTH: SEPTEMBER
YEAR: 2003
LATITUDE: 43 2 N
LONGITUDE: 108 27 W

[TEMPERATURE DATA]

AVERAGE MONTHLY: 57.6
DPTR FM NORMAL: -1.0
HIGHEST: 85 ON 4
LOWEST: 28 ON 18

[PRECIPITATION DATA]

TOTAL FOR MONTH: 0.69
DPTR FM NORMAL: 0.02
GRTST 24HR 0.31 ON 17-17
SNOW, ICE PELLETS, HAIL
TOTAL MONTH: 1.5 INCHES
GRTST 24HR 1.5 ON 17-17
GRTST DEPTH: M ON M

SYMBOLS USED IN COLUMN 16

1 = FOG
2 = FOG REDUCING VISIBILITY
TO 1/4 MILE OR LESS
3 = THUNDER
4 = ICE PELLETS
5 = HAIL
6 = GLAZE OR RIME
7 = BLOWING DUST OR SAND:
VSBY 1/2 MILE OR LESS
8 = SMOKE OR HAZE
9 = BLOWING SNOW
X = TORNADO

[NO. OF DAYS WITH]

MAX 32 OR BELOW: 0
MAX 90 OR ABOVE: 0
MIN 32 OR BELOW: 2
MIN 0 OR BELOW: 0

[WEATHER - DAYS WITH]

0.01 INCH OR MORE: 5
0.10 INCH OR MORE: 3
0.50 INCH OR MORE: 0
1.00 INCH OR MORE: 0

[HDD (BASE 65)]

TOTAL THIS MO. 184
DPTR FM NORMAL 15
SEASONAL TOTAL 208
DPTR FM NORMAL -23

CLEAR (SCALE 0-3) 20
PTCLDY (SCALE 4-7) 2
CLOUDY (SCALE 8-10) 1

[CDD (BASE 65)]

TOTAL THIS MO. 19
DPTR FM NORMAL -1
SEASONAL TOTAL 739
DPTR FM NORMAL 306

[PRESSURE DATA]

HIGHEST SLP M ON M
LOWEST SLP M ON M

[REMARKS]